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(FILE 'HOME' ENTERED AT 17:25:00 ON 05 JUN 2001)

FILE 'REGISTRY' ENTERED AT 17:25:08 ON 05 JUN 2001

L1 4 S CONJUGATED LINOLEIC ACID
L2 3766 S OCTADECADIENOIC ACID
L3 0 S 12 AND 9 CIS 11 TRANS
L4 26 S L2 AND 9 CIS
L5 9 S L4 AND 11 TRANS
L6 14 S L2 AND 10 TRANS
L7 6 S L6 AND 12 CIS

FILE 'CAPLUS, MEDLINE' ENTERED AT 17:43:18 ON 05 JUN 2001

L8 193 S 2540-56-9
L9 0 S L8 AND MELTING POINT
L10 1 S L8 AND MP
L11 24 S L8 AND SYNTHESIS
L12 5 S L8 AND NMR
L13 5 DUPLICATE REMOVE L12 (0 DUPLICATES REMOVED)
L14 101 S 2420-56-6
L15 0 S L14 AND MELTING POINT
L16 44 S 114 AND MP
L17 2 S PURIFICATION AND L14
L18 15 S L14 AND SYNTHESIS
L19 15 DUPLICATE REMOVE L18 (0 DUPLICATES REMOVED)
L20 2 S L19 NOT L11
L21 3 S L8 AND ISOLAT? AND CHARACTER?

=> s l14 and isolat? and character?

L22 2 L14 AND ISOLAT? AND CHARACTER?

=> s l22 not l21

L23 0 L22 NOT L21

L11 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1998:759222 CAPLUS
DOCUMENT NUMBER: 130:110075
TITLE: Chemoenzymic **Synthesis** of Conjugated Linoleic Acid
AUTHOR(S): Chen, Chien-An; Sih, Charles J.
CORPORATE SOURCE: School of Pharmacy, University of Wisconsin, Madison,
WI, 53706, USA
SOURCE: J. Org. Chem. (1998), 63(26), 9620-9621
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The authors describe a chemoenzymic method for the **synthesis** of (9Z,11E)- and (10E,12Z)-octadecadienoic acids, the two most abundant conjugated linoleic acids found in foods.
REFERENCE COUNT: 24
REFERENCE(S):

- (1) Ackman, R; Lipids 1977, V12, P293 CAPLUS
- (2) Baillargeon, M; Appl Microbiol Biotechnol 1989, V30, P92 CAPLUS
- (3) Berdeaux, O; J Am Oil Chem Soc 1997, V74, P1011 CAPLUS
- (4) Body, D; J Am Oil Chem Soc 1965, V42, P5 CAPLUS
- (6) Chen, C; J Am Chem Soc 1982, V104, P7294 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

11 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1999:231222 CAPLUS
DOCUMENT NUMBER: 130:267264
TITLE: **Synthesis** of conjugated linoleic acid
INVENTOR(S): Seidel, Michael C.
PATENT ASSIGNEE(S): USA
SOURCE: U.S., 13 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5892074	A	19990406	US 1997-800567	19970218
US 6153774	A	20001128	US 1999-283504	19990401
US 6160141	A	20001212	US 1999-283554	19990401

PRIORITY APPLN. INFO.: US 1997-800567 A2 19970218

OTHER SOURCE(S): CASREACT 130:267264

AB A **synthesis** process for producing 9-cis,11-trans-octadecadienoic acid at room temp. in high yield is disclosed, including providing a tosylate or mesylate of a Me ester of ricinoleic acid and 9-cis,11-trans-octadecadienoic acid formed when the tosylate or mesylate reacts with diazabicycloundecene (DBU). In one aspect, the tosylate of the Me ester of ricinoleic acid is formed with tosyl chloride in a pyridine solvent. In one aspect, the mesylate of the Me ester of ricinoleic acid is formed with mesyl chloride in acetonitrile and tri-Et amine. In one aspect, the tosylate or mesylate is reacted with DBU in a polar, non-hydroxylic solvent of acetonitrile to form the preferred isomer

of 9-cis,11-trans-octadecadienoic acid at room temp. in high yield.

REFERENCE COUNT: 8

- REFERENCE(S):
- (2) Berdeaux; JAOCs 1997, V74(8), P1011 CAPLUS
 - (3) Cook; US 5554646 1996 CAPLUS
 - (5) Ha, Y; Cancer Research 1990, V50, P1097 CAPLUS
 - (6) Ip, C; Cancer Research 1991, V51, P6118 CAPLUS
 - (7) Ip, C; Cancer Research 1994, V54, P1212 CAPLUS

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